MWR

MORBIDITY AND MORTALITY WEEKLY REPORT

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Epidemiologic Notes and Reports

Trends in Human Immunodeficiency Virus Infection Among Civilian Applicants for Military Service — United States, October 1985-December 1986

Since October 1985, the U.S. Department of Defense has routinely tested civilian applicants for serologic evidence of infection with human immunodeficiency virus (HIV) as part of their preinduction medical evaluation (1). Results from the first 6 months of testing have been reported previously (2,3). Results for the first 15 months provide the opportunity to observe trends of infection in this population.

Between October 1985 and December 1986, 789,578 civilian applicants for military service were screened. Of these, 1,186 were confirmed as HIV-antibody positive by enzyme immunoassay and Western blot immunoelectrophoresis, for an overall rate of 1.5/1,000 individuals tested. Seroprevalence per 1,000 varied by age, sex, race and ethnicity, and region of residence. By age, it was 0.6 for 17-20 year-olds, 2.5 for 21-25 year-olds, and 4.1 for those ≥ 26 years of age. By sex, it was 1.6 for males and 0.6 for females. By race and ethnicity, seroprevalence per 1,000 was 0.8 for whites, 4.1 for blacks, 2.3 for Hispanics, 1.0 for American Indians or Alaskan Natives and Asian or Pacific Islanders. Table 1 shows the seroprevalence among civilian applicants by region of residence.

TABLE 1. Prevalence of HIV antibody * among civilian applicants for military service, by age group and region of residence — October 1985-December 1986

		Age Group (Years)		
Region [†]	17-20	21-25	≥26	All Ages
New England	0.4	1.0	3.8	0.9
Middle Atlantic	0.7	4.6	10.0	2.9
EN Central	0.4	1.8	1.9	0.9
WN Central	0.2	1.0	1.8	0.6
South Atlantic	0.9	3.4	5.4	2.1
ES Central	0.4	1.9	1.3	0.9
WS Central	0.6	2.7	3.0	1.6
Mountain	0.3	1.5	1.9	0.9
Pacific	0.8	1.5	4.0	1.5
US Territories	1.6	6.3	12.3	5.8
All Regions	0.6	2.5	4.1	1.5

^{*}Repeatedly reactive enzyme-linked immunosorbent assay (ELISA) test confirmed by Western blot immunoelectrophoresis; reported as the number of antibody-positive applicants per 1,000 tested.

[†]Defined in notifiable diseases table (Table III).

HIV Infection - Continued

During the 15-month observation period, the seroprevalence did not change significantly, either in the aggregate or when analyzed by age, sex, race and ethnicity (Figure 1), or geographic region. However, seroprevalence among white males showed a small but significant decline of 0.02/1,000 applicants tested per month (p = 0.016 by Chi Square test for trends in proportions using a logistic regression linear model).

Reported by: Health Studies Task Force, Office of the Assistant Secretary of Defense (Health Affairs), US Dept of Defense, Washington, DC. Div of Preventive Medicine and Div of Communicable Diseases and Immunology, Walter Reed Army Institute of Research, Washington, DC. Surveillance and Evaluation Br, AIDS Program, Center for Infectious Diseases, CDC.

Editorial Note: AIDS cases reported to CDC continue to increase*. However, because of the lengthy incubation period of AIDS (4), these cases represent infection occurring at least several years prior to the report of disease. There has been little information to indicate current trends in HIV infection. Analysis of the results of the testing of civilian applicants thus far basically shows neither an increase nor a decrease in infection level for the group as a whole or for individual subgroups. The significance of this apparent absence of change in antibody prevalence during the 15-month period studied is not yet clear.

Volunteers for military service, who are verbally screened by the recruiting official prior to arrival at the medical evaluation center, are not fully representative of the overall population in that they underrepresent the three groups in the United States with the highest prevalence of HIV infection[†]. Moreover, applicants do not equally represent all socioeconomic and demographic groups in the population. A growing awareness of the military serologic screening program may have increased self-deferral by persons who are HIV-antibody positive or who feel they may have been exposed to the virus. If so, this could have masked an increased frequency of infection in the population from which the applicants are drawn.

Monitoring trends in infection among civilian applicants for military service as well as among blood donors remains important. It is also critical to compare trends in infection among these volunteer groups with similar trends among groups not affected by self-selection bias. One such surveillance approach, in which anonymously tested sample populations without AIDS-like disease are monitored at participating hospitals, has been initiated recently by CDC. Trends in exposure risks among seropositive individuals should also be monitored to assess possible changes in the relative frequency of the various modes of transmission. Follow-up interviews of a small number of seropositive applicants have found a high proportion with typical risk exposures for AIDS (5). CDC is collaborating with the U.S. Department of Defense, the National Cancer Institute of the National Institutes of Health, and certain state and local health departments to develop a systematic follow-up evaluation of seropositive civilian applicants in selected cities and states.

References

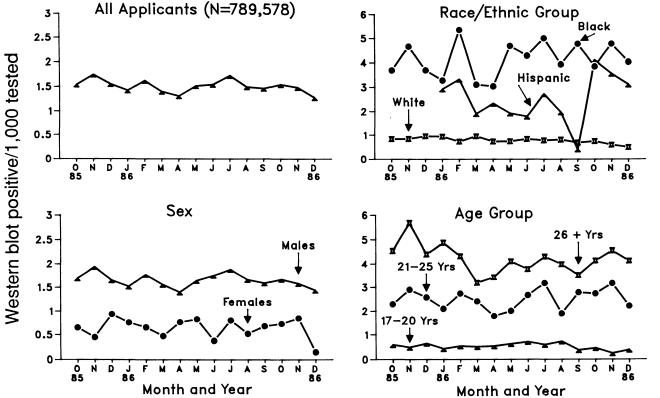
- 1. Herbold JR. AIDS policy development within the Department of Defense. Milit Med 1986;151:623-7.
- 2. CDC. Human T-lymphotropic virus type III/lymphadenopathy-associated virus antibody prevalence in U.S. military recruit applicants. MMWR 1986;35:421-4.
- Burke DS, Brundage JF, Bernier W, et al. Demography of HIV infections among civilian applicants for military service in four counties in New York City: a preliminary analysis. New York State Med J [In press].

^{*}An average of 38.3 AIDS cases per day were reported for the period October-December 1986, compared with an average of 26.3 per day for the period October-December 1985.

[†]Active intravenous drug abusers, homosexual men, and hemophiliacs.

[§]Long-term data are not yet available for this group.

FIGURE 1. Human immunodeficiency virus antibody among civilian applicants*, by month — United States, October 1985-December 1986



^{*}U.S. Department of Defense data.

HIV Infection - Continued

- Lui KJ, Lawrence DN, Morgan WM, Peterman TA, Haverkos HW, Bregman DJ. A model-based approach for estimating the mean incubation period of transfusion-associated acquired immunodeficiency syndrome. Proc Natl Acad Sci 1986;83:3051-5.
- Stoneburner RL, Chiasson MA, Solomon K, Rosenthal S. Risk factors in military recruits positive for HIV antibody [Letter]. N Engl J Med 1986;315:1355.

TABLE I. Summary - cases specified notifiable diseases, United States

	18	th Week Endi	ng	Cumulative, 18th Week Ending				
Disease	May 9, 1987	May 3, 1986	Median 1982-1986	May 9, 1987	May 3, 1986	Median 1982-1986		
Acquired Immunodeficiency Syndrome (AIDS)	303	203	N	6.494	4.307			
Aseptic meningitis	75	67	75	1,515	1,497	N		
Encephalitis: Primary (arthropod-borne		0,	, ,	1,515	1,497	1,406		
& unspec)	13	6	18	262	271	318		
Post-infectious	1 1	4	3	20	37	318		
Gonorrhea: Civilian	12,549	14,517	15,686	268.252	287.371	287,371		
Military	364	149	384	5.905	5.255			
Hepatitis: Type A	439	300	370	8.444	7,619	7,375		
Type B	439	493	468	8.540	8,688	7,619 8,450		
Non A, Non B	53	61	N	1.028	1,179			
Unspecified	60	88	114	1,144	1,705	1 012		
Legionellosis	7	6	Ň	250	205	1,812		
Leprosy	1 1	ž	7	72	101	N 97		
Malaria	9	18	18	226	249			
Measles: Total*	142	215	81	1.276		247		
Indigenous	133	188	Ň	1,100	2,526	1,084		
Imported	9	27	Ñ	1,100	2,426	N		
Meningococcal infections: Total	38	52	58	1,208	96	N		
Civilian	38	52	58		1,139	1,209		
Military	1 30	32	56	1,207	1,137	1,198		
Mumps	349	75	91	0.005	2	4		
Pertussis	12	47	40	6,665	1,227	1,445		
Rubella (German measles)	1 12	4/		584	882	618		
Syphilis (Primary & Secondary): Civilian	531	545	22	118	177	257		
Military	1 33	545	545	11,219	8,914	9,819		
Toxic Shock syndrome	1 ;	-	4	68	79	117		
Tuberculosis	327	2	N	104	123	N		
Tularemia	I 321	459	441	6,720	6,790	6,967		
Typhoid Fever	1 10	-	4	35	21	33		
Typhus fever, tick-borne (RMSF)		6	6	94	81	117		
Rabies, animal	7	3	15	28	30	53		
	100	132	132	1,664	1,906	1,906		

TABLE il. Notifiable diseases of low frequency, United States

	Cum. 1987		Cum. 1987
Anthrax Botulism: Foodborne (Ohio 1; Calif. 1) Infant Other Brucellosis (Ohio 1; Tex. 1) Cholera Congenital rubella syndrome Congenital syphilis, ages < 1 year Diphtheria	3 18 - 28 - 3 -	Leptospirosis Plague Poliomyelitis, Paralytic Psittacosis (Maine 1) Rabies, human Tetanus Trichinosis Typhus fever, flea-borne (endemic, murine) (N. Y. City 1)	8 2 - 27 - 9 11

^{*}Five of the 142 reported cases for this week were imported from a foreign country or can be directly traceable to a known internationally imported case within two generations.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending
May 9, 1987 and May 3, 1986 (18th Week)

Reporting Area UNITED STATES NEW ENGLAND Maine N H Vt Mass R I Conn MID ATLANTIC Upstate N Y	4100	Aseptic	Encer	halitis	Gono	orrhea	Н	epatitis (V	Legionel-			
Reporting Area	AIDS	Menin- gitis	Primary	Post-in- fectious		ilian)	, A	В	NA,NB	Unspeci- fied	losis	Leprosy
	Cum 1987	1987	Cum 1987	Cum 1987	Cum. 1987	Cum 1986	1987	1987	1987	1987	1987	Cum 1987
UNITED STATES	6,494	75	262	20	268,252	287,371	439	439	53	60	7	72
NEW ENGLAND	236	2	12	1	9,367	6,049	5	40	1	4	-	4
Maine N. H.	11 6	-	1	-	282	334	-	1	1	-	-	-
	4	-	2	-	160 68	176 95		4	-		-	2
	131	-	5	-	3,478	2,659	3	28	-	3	-	2
	21 63	2	3 1	1 -	753 4,626	623 2,162	2	- 7	-	1	-	-
MID ATLANTIC	2,028	7	28	1	43,691	48,774	21	33	3	4	_	5
Jpstate N Y	261	3	15	1	5,708	5,499	17	9	3	-	-	-
NY City	1,197	3	4	-	23,162	28,402	3	12	-	3	-	5
N J Pa	417 153	1 -	4 5	-	5,494 9,327	6,505 8,368	1 -	12	-	1	-	-
EN CENTRAL	419	4	64		32,076	39,239	27	51	7	3	3	1
Ohio	71	1	26	-	8,530	8,980	9	15	3	1	2	i
Ind	32	-	3	-	3,304	4,582	1	6	-	-	-	-
ll Viich	199	1	8 23	-	4,659	9,874	4	8	2	-	1	-
Vis.	82 35	2	4	-	12,510 3,073	11,536 4,267	13	22	2	2	1 -	-
N N CENTRAL	136	4	15	-	11,047	12,339	16	7	2	-	-	-
∕linn	40	-	9	-	1,840	1,865	5	1	-	-	-	-
owa Mo	5 67	1	1	-	1,054 5,554	1,241 6,158	2	4	ī	-	-	-
VIO N Dak	1	'		:	103	108	- :	-	-		-	-
S Dak	1	1	-	-	220	246	-		-	-	-	-
Nebr Cans	7 15	2	3 2	:	660 1,616	880 1,841	9	2	1	-	-	-
			_	_			-	_				
S ATLANTIC Del	1,063 8	15	36 1	8	72,275 1,081	72,762 1,170	41	103 1	8	22	1	4
∕Id	141	2	3	2	8,802	8,606	4	16	1	2	-	2
) C /a	142	1		-	4,916	5,561	. 2	4	- :		-	:
va V Va	71 7	1	15 5	1	5,477 547	6,074 850	17	9 2	1	18		-
۱C	37	-	8	-	10,968	11,878	1	9	2	-	-	-
S C Sa	27	1	-	-	5,994	6,392	-	5	-	-		1
ia -la	159 471	5 5	4	5	12,358 22,132	12,445 19,786	6 11	30 27	1 3	2	1	1
S CENTRAL	64	2	16	3	20,273	23,645	10	41	4	1	-	_
(y	17	1	8	1	2,055	2,778	2	9	-	-	-	-
enn	2 37	-	3 5	-	6,974 6,590	9,272 6,630	8	16 6	3	-	-	-
∖la ∕Iiss	8	1	-	2	4,654	4,965	-	10	1	1	-	-
NS CENTRAL	593	15	28	2	31,604	34,972	35	58	4	6		4
Ark	16	-	-	ī	3,119	3,348	6	2	1	-	-	-
.a	85	2	5	:	5,891	6,242	2	23	1	-	-	-
Okla Tex	22 470	5 8	9 14	1 -	3,409 19,185	4,012 21,370	2 25	7 26	2	6	-	4
MOUNTAIN	149	4	8	1	7,205	8,710	51	18	8	2	2	_
√ lont	2	-	-	-	177	239	2	4	-	-	-	-
daho	3	-	-	-	255	280	3	4	-	-	-	-
Nyo Colo	2 73	- :	1		112 1,464	201 2,338	2	4	1	1	-	
N Mex	15	-	1	-	794	907	3	i	-	-	-	-
Ariz	21	3	6	1	2,637	2,910	36	- :	6	-	2	-
Jtah Nev	9 24	1	-		237 1,529	372 1,463	4 1	1 4	1	1	-	-
PACIFIC	1,806	22	55	4	40,714	40,881	233	88	16	18	1	54
Nash	88	1	6	-	2,862	3,299	38	12	3	6		2
Oreg	37		-	:	1,549	1,636	59	14	4	. 1	:	4-
Calif Alaska	1,639 5	17 2	47 1	4	35,280 667	34,420 1,068	132 2	60 1	7 2	11	1	45
Alaska Tawaii	37	2	i	-	356	458	2	i	-	-	-	7
Guam	-	-	-	_	70	34	-	-	-	-	-	-
PR	16	1	-	1	794 82	783 74	1	12	-	-	-	5
/ I Pac Trust Terr	-	-	-	-	175	66	-	1 -	-	1	-	38
Amer Samoa	_	_	-	_	37	13	_	1	-	-	_	

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending May 9, 1987 and May 3, 1986 (18th Week)

	Malaria Mea		Mea	sles (Rubeola)		Menin-						T			
Reporting Area	Malaria	Indig	enous	Impo	ted *	Total	gococcal Infections	Mu	mps		Pertussis	i		Rubella	
	Cum. 1987	1987	Cum. 1987	1987	Cum 1987	Cum. 1986	Cum. 1987	1987	Cum. 1987	1987	Cum. 1987	Cum. 1986	1987	Cum. 1987	Curr 1986
UNITED STATES	226	133	1,100	9	176	2,526	1,208	349	6,665	12	584	882	12	118	177
NEW ENGLAND Maine	15	1	58 3	5	58	16	120 6	-	16	1	16	45	-	-	1
N.H. Vt	-	-	49 1	3 §	46 8	-	13	-	6	-	2	2 17	-	-	i
Mass	8	1	i	2 †	4	15	7 57	-	2 1	1	3 4	2 9	-	-	
R I. Conn.	4 3	-	4	-	-	1 -	11 26	-	2 5	-	7	1 14	-	-	
MID ATLANTIC	14 9	12	149 9	-	35	873	76	13	108	3	82	87	2	5	25
Upstate N Y N.Y. City	2	10	116	-	8 8	10 149	52 8	8	46	3	65	61 3	2	3 1	17
N.J. Pa	1 2	2	6 18	-	2 17	713 1	16	5	33 29	-	4 13	5 18	-	i	3
E N. CENTRAL	5	4	104	_	16	482	160	188	3,834	2	75		-		
Ohio Ind.	4	1	1	-	4	-	59	1	46	-	25	162 63	1	18	10
III	1	3	60	-	11	285	20 23	15 119	481 1,948	-	1 5	16 21	1	17	7
Mich Wis	-		23 20	-	1	193	48 10	51 2	532 827	2	24 20	17 45	-	1	2
W.N. CENTRAL	6	-	34	1 1 §	6	118	61	33	815	1	34	42	-	1	6
Minn. Iowa	3 1	-		12	4	14	18 3	7 20	499 232	-	7 3	20 6	-	1	
Mo. N. Dak	2	-	34	-	1	5 7	17 1	•	13		13	4	-		1
S. Dak	-	-	-	-	-		1	5	38	-	1 2	2 3	-	-	-
Nebr Kans	-	-	-	-	1	91	2 19	1	2 28	1	8	1 6	-	-	5
SATLANTIC	40	5	42	2	4	350	217	45	118	2	131	343	_	9	1
Del Md	1 8	-		:	-	1 21	4 18	1	9	-	2	204 44	-	2	-
D.C Va	6	-	-	-	1	-	5	-	-	-	-	-	-	-	
W. Va	-	-	-		-	28 2	37 -	40 1	48 17	1	33 26	9 4	-	1	-
N.C S.C	5 3	-	-	- :	-	285	29 20	1	2 10	1	53	14 4	-	-	-
Ga Fla	2 9	5	42	2 †	3	12	43 61	2	6 26	-	13 4	47 17	-	1 5	1
ES CENTRAL	1	1	2	-	-	1	61	43	971	-	7	16	-	2	1
Ky Tenn	-	-	-		-	1	10 22	10 33	202 756	-	1	1 5	-	2	1
Ala Miss	1	1	2	-	-	-	23 6	-	13	-	3	10	-	-	-
W.S CENTRAL	14	_	74	_	1	327	91	14	508		40	26		1	25
Ark. La	1	-	-	-	-	274	8	- '	203	-	2	2		i	35
Okla	3	-	-	-	1	4	10 14	7 N	178 N	-	9 29	3 21	-	-	-
Tex MOUNTAIN	10	- 29	74	•	-	49	59	7	127	-	-	-	-	-	35
Mont.	8	26	180 42	1 -	12 1	150 1	45	4	128	:	44 1	87 4	-	6	1
ldaho Wyo.	1		-	-	-	-	3	-	2	-	12	26	-	1	-
Colo N Mex	1	-		-	-	5	15	-	22	-	17	16	-	1 -	-
Ariz	4	3	137 1	-	9 1	18 126	3 16	N 4	N 97	-	3 8	9 23	-	-	1
Utah Nev	2	-	-	î t	1	-	5	-	5 2	-	1	9	-	4	
PACIFIC	123	81	457	-	44	209	377	9	167	3	155	74	9	76	97
Wash Oreg	7	-	1	-	-	43	50	-	29	2	24	26	-	-	97
Calif Alaska	110	81	454	-	32 8	144	14 307	N 8	N 124	-	13 70	5 40	2	1 60	94
Alaska Hawaii	3	-	:	-	4	20	4 2	1	3 11	1	2 46	1 2	7	15	
Guam P.R	-	-	2	-	-	3	3	-	4	-	-	-	1	1	2
V.1.	-	46	386	-	-	8	2	2	3 5	-	11	4	-	1	5
Pac. Trust Terr Amer. Samoa	- :	-	-	-	-	-	1	i	3 3	-	1	-	-	1	

*For measles only, imported cases includes both out-of-state and international importations.

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending
May 9, 1987 and May 3, 1986 (18th Week)

_		Ma	y 9, 1987	and May	3, 1986 (18th Wee	k)		
Reporting Area	Syphilis (Primary &	(Civilian) Secondary)	Toxic- shock Syndrome	Tubero	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
	Cum 1987	Cum 1986	1987	Cum. 1987	Cum 1986	Cum. 1987	Cum 1987	Cum 1987	Cum. 1987
UNITED STATES	11,219	8,914	1	6,720	6,790	35	94	28+7	1,664
NEW ENGLAND Maine N H	171 1 1	173 11 6	1 1	194 14 5	209 19 9	-	8 -	-	-
Vt Mass	1 86	6 85	-	4 87	7 104	-	6	-	-
R I Conn	5 77	12 53		21 63	14 56	-	1 1	-	-
MID ATLANTIC Upstate N Y N Y City N J	2,041 76 1,419 234	1,207 64 671 242	:	1,249 190 605 219	1,396 217 674 251	- - -	9 4 - 5	- - -	122 9 - 3
Pa	312	230	-	235	254	-	-	-	110
EN CENTRAL Ohio Ind III Mich	179 36 18 61 44	371 45 43 207 56	:	806 169 76 312 220	853 132 104 380 193	1 1 -	15 6 1 4 2	3 3 -	47 6 22 2
Wis	20	20	-	29	44	-	2	-	17
W N CENTRAL Minn Iowa Mo N Dak	50 5 8 24	96 16 5 49 2	-	193 50 10 99 1	192 47 16 97 3	10 2 7	7 2 2 3	- - - -	355 75 112 17 42
S Dak Nebr Kans	5 5 3	1 8 15	- - -	9 11 13	8 4 17	1	- -	- - -	76 12 21
S ATLANTIC Del Md D C Va W Va N C S C Ga Fla	3,868 35 220 122 91 5 218 253 547 2,377	2,618 12 164 129 154 8 188 246 513 1,204	- - - - - - -	1,350 11 114 45 115 43 129 127 200 566	1,311 18 94 51 127 46 179 151 172 473	3 1 - - 1 - 1	6 - 1 1 1 1 3	8+3 1 1 2 5 2	470 170 21 145 22 - 23 69 20
ES CENTRAL Ky Tenn Ala Miss	698 6 293 177 222	597 26 223 206 142	- - - -	546 153 143 180 70	589 153 160 192 84	2 1 - - 1	1 - 1	5 + 1 3 2	
WS CENTRAL Ark La Okla Tex	1,459 75 258 54 1,072	1,814 93 303 56 1,362	- - - -	753 82 105 72 494	822 92 171 74 485	10 3 1 6	6 1 2 3	10+3	240 65 4 9 162
MOUNTAIN Mont Idaho Wyo Colo N Mex Anz Utah Nev	248 7 1 22 32 21 121 6 38	222 2 1 - 65 26 93 4 31	- - - - - -	171 8 16 - 36 95 6	144 7 5 - 7 34 68 10 13	7 1 1 1 1 2 1	3	1 1	133 67 35 - 29
PACIFIC Wash Oreg Calif Alaska Hawan	2,505 31 94 2,372 3 5	1,816 48 35 1,716	:	1,458 74 43 1,247 22 72	1,274 71 45 1,084 17 57	2 1 1 -	39 - - 37 - 2	1 - 1	158 - - 157 1
Guam P R V I Pac Trust Terr Amer Samoa	2 324 3 83 2	1 299 - 105 -	= = = = = = = = = = = = = = = = = = = =	4 86 1 56	86 1 10 1	:	- - - 9 -	- - - -	23 - - -

TABLE IV. Deaths in 121 U.S. cities.* week ending May 9, 1987 (18th Week)

		All Caus	es, By A	ge (Year	s)				All Causes, By Age (Years)						
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I** Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I** Total
NEW ENGLAND	708	506	126	48	15	13	49	S. ATLANTIC	1,184	722	276	93	42	51	34
Boston, Mass.	204	141	36	18	4	5	23	Atlanta, Ga.	167	86	41	14	6	20	6
Bridgeport, Conn.	58	33	10	11	1	3	2	Baltimore, Md	192	113	52	21	2	4	4
Cambridge, Mass. Fall River, Mass.	16 30	15	1	-	-	-	2	Charlotte, N.C.	94	58	17	11	2	6	4
Hartford, Conn.	68	23 48	6 11	6	1	1	2	Jacksonville, Fla. Miami, Fla.	113 101	72 62	28 22	6 10	4 5	3	4
Lowell, Mass.	31	23	5	2	1	-	1	Norfolk, Va.	64	36	15	10	5	8	3
Lynn, Mass.	21	19	2	-	:	-		Richmond, Va.	82	52	24	2	3	1	3
New Bedford, Mass	22	18	2	-	-	2	3	Savannah, Ga.	29	24	3	-	2	-	2
New Haven, Conn.	46	35	7	4	-	-	3	St. Petersburg, Fla.	85	68	8	3	5	1	2
Providence, R.I. Somerville, Mass.	63	46	10	3	4	-	5	Tampa, Fla	81	52	16	. 7	4	2	-
Springfield, Mass	8 43	7 33	1	i	-	-	1	Washington, D.C	155	84	45	19	4	3	4
Waterbury, Conn.	33	23	8 9	1	-	1	3	Wilmington, Del.	21	15	5	-	-	1	-
Worcester, Mass	65	42	18	2	2	1	2	E.S. CENTRAL	738	476	157	62	17	26	34
				-	-	'		Birmingham, Ala.	133	91	26	11	1	4	3
	2,667	1,747			31	55	154	Chattanooga, Tenn	47	34	10	2	-	1	3
Albany, N.Y.	56	36	14	4	-	2	1	Knoxville, Tenn.	71	45	14	6	5	1	3
Allentown, Pa.	11 119	8 89	3	-	:	-	- 1	Louisville, Ky	114	80	24	7	1	2	8
Buffalo, N.Y. Camden, N.J.	48	30	18 9	8 6	1	3	10	Memphis, Tenn	149	92	30	10	4	13	7
Elizabeth, N.J.	24	17	3	4	2	1	2	Mobile, Ala.	56	32	13	8	1	2	3
Erie, Pa.t	29	22	4	2	-	1	2	Montgomery, Ala Nashville, Tenn	44 124	26 76	10 30	5 13	1 4	1	7
Jersey City, N.J.	45	32	8	3	1	i	ī	TVOSTIVINE, TETHI	124	70	30	13	-	•	,
N.Y. City, N.Y. 1	,443	916			35	22	66	W.S. CENTRAL	1,402	854	301	127	59	61	53
Newark, N.J.	53	23	18	8	1	3	2	Austin, Tex.	56	37	11	4	3	1	5
Paterson, N.J.	30	22	4	2	-	2		Baton Rouge, La	59	37	15	5	-	2	-
Philadelphia, Pa.	400 52	257 30	90 14	31		10	35	Corpus Christi, Tex	45	29	10	2	3	1	-
Pittsburgh, Pa.† Reading, Pa.	28	22	6	3	1	4	1 5	Dallas, Tex	197	118	37	22	17	3	8
Rochester, N.Y.	100	77	18	4	-	1	12	El Paso, Tex Fort Worth, Tex	65	30	23	. 3	1	8	5
Schenectady, N.Y.	32	25	4	-	1	2	3	Houston, Tex &	100 308	58 176	19	12	6	5	5 7
Scranton, Pa.†	32	28	3	1	-	-	4	Little Rock, Ark	75	56	74 10	34 5	13	11 2	4
Syracuse, N.Y.	84	60	13	7	3	1	4	New Orleans, La	152	81	40	15	2	13	-
Trenton, N.J.	41	27	6	3	4	1	1	San Antonio, Tex	174	115	33	16	4	6	8
Utica, N.Y. Yonkers, N.Y.	12 28	10 16	2 9	2	-	1	4	Shreveport, La Tulsa, Okla	64	41	11	4	3	5	6
			400				i		107 635	76 418	18	5	4	4	5 32
Akron, Ohio	2,222	1,464			44	71	93	MOUNTAIN		418 55	133 17	42 7	20	22	6
Canton, Ohio	81 38	58 26	18 8	2	-	3	3	Albuquerque, N.Mex Colo Springs, Colo	49	35	'7	4	2	i	6
Chicago, III.§	564	362	125		10	22	16	Denver, Colo	108	70	25	3	3	ż	2
Cincinnati, Ohio	111	71	30	6	2	2	18	Las Vegas, Nev	80	46	29	2	1	2	5
Cleveland, Ohio	141	81	41	7	6	6	1	Ogden, Utah	26	15	5	3	-	3	1
Columbus, Ohio	127	78	33	9	4	3	1	Phoenix, Ariz.	124	78	24	10	8	4	3
Dayton, Ohio	112	76	32	3	-	1	4	Pueblo, Colo	18	15	1	1	1	-	4
Detroit, Mich. Evansville, Ind.	238 42	141 31	47	37	6	7	8	Salt Lake City, Utah	45 105	30 74	6 19	3 9	3 2	3	3
Fort Wayne, Ind.	42	40	8 6	2	2	1	1 3	Tucson, Ariz	103	/4	19	9	2	'	2
Gary, Ind.	13	6	4	1	1	i	- 1	PACIFIC	1,882	1,224	387	166	58	45	102
Grand Rapids, Mich		35	13	ż	ż	2	8	Berkeley, Calif	18	1,224	307	2	56	1	102
Indianapolis, Ind.	158	105	26	15	3	9	4	Fresno, Calif	88	63	15	5	3	2	10
Madison, Wis.	37	21	8	3	3	2	3	Glendale, Calif	12	11	1	-	-	-	1
Milwaukee, Wis.	128	93	25	7	2	1	-	Honolulu, Hawaii	62	35	18	5	2	2	9
Peoria, III.	41	29	9	-	-	3	2	Long Beach, Calif.	80	52	19	5	-	4	3
Rockford, III. South Bend, Ind.	41	28	10	2	-	1	3	Los Angeles, Calif Oakland, Calif.	541	345	115	52	22	6	14
Toledo, Ohio	87	58 87	22	3	2	2	7	Pasadena, Calif.	65	41	14	5	2	3	1
Youngstown, Ohio	109 51	38	17 10	1 3	1	3	8 1	Portland, Oreg.	22 157	19 104	34	1 10	1 4	4	1 7
go.o, Oo								Sacramento, Calif	149	98	27	14	4	6	10
W.N. CENTRAL	810	525	174		25	24	44	San Diego, Calif.	144	98	26	12	7	1	17
Des Moines, Iowa	66	45	14	2	1	3	7	San Francisco, Calif	152	95	31	20	2	4	4
Duluth, Minn.	27	20	5	2	:	-	2	San Jose, Calif.	158	95	36	18	3	6	8
Kansas City, Kans.	33 120	17 90	6	4 7	4	2	2	Seattle, Wash	139	92	25	10	7	5	5
Kansas City, Mo. Lincoln, Nebr.	39	30	18 7	1	3 1	2	8	Spokane, Wash Tacoma, Wash	54	41 23	9	3	-	1	9
Minneapolis, Minn.	183	122	44	12	3	2	2	racollia, vvasii.	41		13	4	1	-	2
Omaha, Nebr.	88	54	20	6	4	4	5	TOTAL	12,248 [†]	^T 7,936	2,597	1.003	341	368	595
St. Louis, Mo.	125	71	28	13	5	8	14		-,	,	_,	.,		300	555
St. Paul, Minn.	62	37	14	6	3	2	1								
Wichita, Kans.	67	39	18	8	1	1	2								

^{*}Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or

more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included ** Pneumonia and influenza.

[†] Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
†Total includes unknown ages.

[§] Data not available. Figures are estimates based on average of past 4 weeks

Recommendation of the Immunization

Practices Advisory Committee (ACIP)

Pertussis Immunization; Family History of Convulsions and Use of Antipyretics — Supplementary ACIP Statement

The Immunization Practices Advisory Committee (ACIP) has reviewed available data concerning the risks and benefits of pertussis vaccine for infants and children with a family history of convulsions. Based on this review, the ACIP does not believe that a family history of convulsions should be a contraindication to vaccination with diphtheria and tetanus toxoids and pertussis vaccine (DTP). In addition, the ACIP believes that antipyretic use in conjuction with DTP vaccination may be reasonable in children with personal or family histories of convulsions. Consequently, the following statement updates some of the previous recommendations regarding pertussis vaccine (1).

Vaccination of Children with Family Histories of Convulsions with Pertussis Vaccine

The risk of neurologic events after DTP vaccination is very small. Most neurologic events (primarily febrile seizures, but including nonfebrile seizures, encephalopathy, or other neurologic symptoms) that occasionally follow DTP vaccination occur in children without known risk factors. However, recent studies suggest that infants and children with a history of convulsions in first-degree family members (i.e., siblings and parents) have a 3.2-fold increased risk for neurologic events compared with those without such histories (CDC, unpublished data). Nevertheless, these children are still at very low risk for serious neurologic events following DTP vaccination. Convulsions within 3 days of DTP vaccination may be unrelated to vaccination, induced by vaccine components, or initiated by vaccine-associated fever in those children prone to febrile convulsions. Although children with a family history of seizures have an increased risk for developing idiopathic epilepsy, febrile seizures (including those following vaccinations) do not themselves increase the probability of epilepsy or other neurologic disorders (2,3).

After careful deliberation, the ACIP has concluded that a family history of convulsions in parents and siblings is not a contraindication to pertussis vaccination and that children with such family histories should receive pertussis vaccine according to the recommended schedule (1,4). The committee reached this decision after considering 1) the risks of pertussis disease, 2) the large number of children (5%-7%) with a family history of convulsions, 3) the clustering of these children within families, and 4) the low risk of convulsions following pertussis vaccination (1-3,5).

The ACIP believes that parents of infants and children with family histories of convulsions should be informed of their children's increased risk of seizures following DTP vaccination. In particular, they should be told, before the child is vaccinated, to seek immediate medical evaluation in the unlikely event of a seizure. The child's permanent medical record should document that the small risk of postvaccination seizure and the benefits of pertussis vaccination have been discussed.

Antipyretic Use in Children with Personal or Family Histories of Convulsions

There are no data on whether the prophylactic use of antipyretics following DTP vaccine can decrease the risk of febrile convulsions. However, preliminary information suggests that acetaminophen given at a dose of 15 mg/kg at the time of DTP vaccination and again 4 hours later will reduce the incidence of postvaccination fever (6). Thus, it is reasonable to

Pertussis - Continued

consider administering antipyretics (such as acetaminophen) at age-appropriate doses at the time of vaccination and every 4 to 6 hours for 48 to 72 hours to children at higher risk for seizures than the general population.

References

- ACIP. Diphtheria, tetanus, and pertussis: guidelines for vaccine prophylaxis and other preventive measures. MMWR 1985;34:405-14, 419-26.
- 2. Nelson KB, Ellenberg JH. Prognosis in children with febrile seizures. Pediatrics 1978;61:720-7.
- Hirtz DG, Nelson KB, Ellenberg JH. Seizures following childhood immunizations. J Pediatr 1983; 102:14-8.
- ACIP. New recommended schedule for active immunization of normal infants and children. MMWR 1986;35:577-9.
- Cody CL, Baraff LJ, Cherry JD, Marcy SM, Manclark CD. Nature and rates of adverse reactions associated with DTP and DT immunizations in infants and children. Pediatrics 1981;68:650-60.
- Ipp MM, Gold R, Greenberg S, et al. Acetaminophen prophylaxis of adverse reactions following vaccination of infants with DTP-polio. Pediatr Infect Dis [In press].

Current Trends

Organic Solvents in the Workplace

On March 31, 1987, the National Institute for Occupational Safety and Health (NIOSH) released *Current Intelligence Bulletin #48: Organic Solvent Neurotoxicity*. This is another in a series of NIOSH publications on specific chemical substances, physical agents, or safety hazards found in the workplace. The document, summarized below, is now available to the public*.

Acute exposure to organic solvents can impair manual dexterity, response speed, coordination, or body balance. Epidemiologic studies of workers chronically exposed to organic solvents have demonstrated reduced function of peripheral nerves and increases in the rates of adverse neurobehavioral effects. Such effects include reversible, subjective symptoms (e.g., fatigability, irritability, and memory complaints), sustained changes in personality or mood, and impaired intellectual function (e.g., decreased learning ability, memory, and ability to concentrate). Results of studies involving the chronic exposure of animals to a limited number of organic solvents support the observations of peripheral nervous system dysfunction and neurobehavioral effects in humans.

Approximately 49 million tons of industrial solvents were produced in the United States in 1984. They are used in paints, adhesives, glues, coatings, degreasing/cleaning agents, dyes, polymers, plastics, textiles, printing inks, agricultural products, and pharmaceuticals. An estimated 9.8 million workers in these industries may be exposed to organic solvents by either skin contact or inhalation.

Employers should institute educational programs to inform workers about materials to which they are exposed, potential health risks of such exposure, and safe work practices for

^{*}Copies of CIB #48 can be obtained without charge from the Publications Dissemination Section, Division of Standards Development and Technology Transfer, National Institute for Occupational Safety and Health, 4676 Columbia Parkway, Cincinnati, Ohio 45226; telephone: (513) 841-4287.

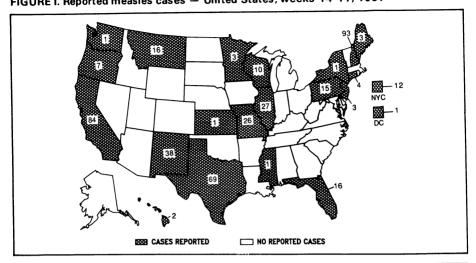
Organic Solvents - Continued

handling these materials. Employers should also assess the conditions under which workers may be exposed to organic solvents, develop programs to survey the extent of worker exposure and the effectiveness of existing controls, improve these controls as needed, and consider establishing medical surveillance for the adverse health effects of excess exposure.

As prudent public health policy, NIOSH recommends that employers take all reasonable precautions to reduce exposures at least to the concentrations specified as permissible exposure limits (PELs) by the Occupational Safety and Health Administration or to NIOSH's recommended exposure limits or the American Conference of Governmental Industrial Hygienist's threshold limit values (if the latter two values provide a greater degree of protection). The three basic methods for limiting worker exposures to organic solvents are: 1) using engineering controls such as closed-system operations and exhaust ventilation, 2) isolating workers in closed booths from which they can use automated controls to run external operations, and 3) equipping workers with carefully selected and scrupulously maintained solvent-resistant gloves, aprons, boots, face shields, safety goggles, work suits, and respiratory protection.

Reported by: Div of Standards Development and Technology Transfer, National Institute for Occupational Safety and Health, CDC.

FIGURE I. Reported measles cases — United States, weeks 14-17, 1987



The Morbidity and Mortality Weekly Report is prepared by the Centers for Disease Control. Atlanta, Georgia, and available on a paid subscription basis from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, (202) 783-3238.

The data in this report are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Such reports and any other matters pertaining to editorial or other textual considerations should be addressed to: ATTN: Editor, Morbidity and Mortality Weekly Report, Centers for Disease Control, Atlanta, Georgia 30333.

Director, Centers for Disease Control James O. Mason, M.D., Dr.P.H. Director, Epidemiology Program Office Carl W. Tyler, Jr., M.D. Editor Michael B. Gregg, M.D. Managing Editor Gwendolyn A. Ingraham

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